

**REMARKS**

Claims 1-25 and 48-54 were pending. Herein, Applicants have amended Claims 1-4, 48, 50-51, and 53-54 and canceled Claims 49 and 50.

Support for the amendments to Claim 1 can be found, for example, in the Specification at page 2, line 25 through page 3, line 1.

Support for the amendments to Claims 2 and 3 can be found, for example, at page 11, lines 10-16; at page 7, lines 12-26; and at page 13, lines 7-11

Support for the amendments to Claim 4 can be found, for example, at page 2, line 25 through page 3, line 2.

Support for the amendments to Claim 48 can be found, for example, at page 2, line 25 through page 3, line 10; and at page 16, line 28 through page 17, line 12.

Support for the amendments to Claim 50 can be found, for example, at page 2, line 25 through page 3, line 10; and at page 16, line 28 through page 17, line 12.

Support for the amendments to Claim 51 can be found, for example, at page 2, line 25 through page 3, line 10; at page 6, line 23 through page 7, line 2; and at page 16, line 28 through page 17, line 12.

Claims 52 and 53 were amended in light of the amendments made to Claim 48 and in light of the cancellation of Claims 49 and 50. Support for the amendments can be found, for example, at page 2, line 25 through page 3, line 10; and at page 16, line 28 through page 17, line 12.

Claim 54 was amended to correct reference to the antecedent, "second hydrogen-selective metal" in amended Claim 48. Support for the amendments to Claim 54 can be found, for example, at page 2, line 25 through page 3, line 10; and at page 16, line 28 through page 17, line 12.

**Objections to the Specification**

The Examiner has objected to the disclosure because the abstract is more than two paragraphs.

Applicants have amended the Abstract as stated *supra*. Applicants submit that the amended Abstract complies with the guidelines for abstracts. Applicants request withdrawal of the Examiner's objection to the Specification.

Claim Rejections under 35 U.S.C. § 112

Claims 1-25 and 48-54 have been rejected under 35 U.S.C. § 112, first paragraph. The Examiner states that the Specification, while being enabling for gas-selective materials, does not reasonably provide enablement for the any and all materials encompassed by the claims as written. The Examiner also states that the Specification does not enable any person skilled in the art to which it pertains, or with which it is mostly nearly connected, to make and/or use the invention commensurate in scope with these claims.

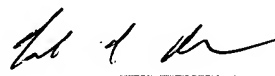
Applicants respectfully disagree with the Examiner's statements, however, in an effort to expedite prosecution, Applicants have amended Claims 1-4, 48, 52-51, and 53-54 and cancelled Claims 49 and 52. Amended Claims 1-4, 48, 52-51, and 53-54 are directed to gas-selective materials. As already acknowledged by the Examiner, the Specification is enabling for gas-selective materials. Therefore, Applicants request withdrawal of the Examiner's rejection of Claims 1-25 and 48-54 under 35 U.S.C. § 112, first paragraph.

**CONCLUSION**

In view of the above amendments and remarks, it is believed that all claims are in condition for allowance, and it is respectfully requested that the application be passed to issue. If the Examiner believes that a telephone conference would expedite prosecution of this case, the Examiner is invited to call the undersigned.

Respectfully submitted,

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P.C.

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